

# Burns & McDonnell **CHP System Team**

#### **Capital Cost Reduction**

#### Shorter & Less Expensive Installation

#### Replicability

System designs are suitable for multiple applications in

### Optimize Facility Energy Use

#### Simplified Systems

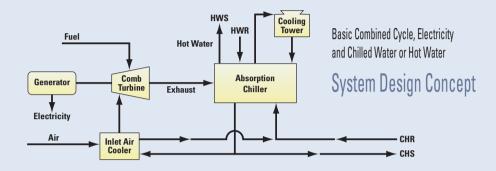
#### Modularity

This system can be built up in modular increments matched to your facility needs, and can be easily expanded as the need arises.

#### Experience the Benefits -Become a Demonstration Site

# **Project Overview**

Burns & McDonnell has teamed with Broad USA, Solar Turbines and Austin Energy to develop a modular system that integrates on-site/near-site power generation and thermally activated technologies to serve a micro utility grid in Austin Texas.











## **Objectives**

- Energy uses for prototype Integrated Energy System (IES):
  - Electricity to local area and electric grid
  - Chilled water for air conditioning and inlet air cooling for gas turbine
  - Space heating for IES plant
- Cost savings through efficiency: 70%-80%
- Integrated control system that will allow ease of operations and remote monitoring
- Modular design will be adaptable to meet various capacity requirements, space limitations, and grid interconnection
- Improve reliability with proven on-site generation technologies that isolate facilities from grid power quality problems and outages

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